

2013 TEAM Conference

Technical Session Overview

Breakout Session #1 – Thursday March 14 : 1:00 PM to 2:00 PM

Salon A	Salon B	Salon E	Salon F&G
<p>The Nuts and Bolts of Conducting a Road Safety Audit</p> <p>Conducting a successful road safety audit requires research, planning, and organization. This presentation provides a tour of the process, including pre-audit data collection, on-site observation, and collective site assessment.</p> <p>Dana J. Ternus, MA Regional Planner Northwest Missouri Regional Council of Governments</p>	<p>Route 169 Bin Wall</p> <p>The Route 169 Bin Wall Project replaced approximately 1 mile of deteriorating metal bin wall along the northbound lanes of Route 169 and rehabilitated a 3000' bridge that carries the southbound lanes. This project was an example of team work and cooperation among all parties including adjacent stakeholders, MoDOT, Consultant and Contractor.</p> <p>Mark Fisher, PE Project Manager Michael Warren Senior Construction Inspector MoDOT Cory Imhoff, PE Associate Vice President HDR Engineering, Inc.</p> <p>Illinois Route over UPRR and Prairie DuPont Canal</p> <p>IDOT required a new span over the UP Railroad and Prairie DuPont Canal. The new four-span parabolic haunched plate girder bridge design was completed utilizing the grillage method, and is one of the first LRFD long span bridges designed for IDOT.</p> <p>Eric Lagemann, PE, SE Horner & Shifrin</p>	<p>Managing Mobility in the Kansas City Region</p> <p>The KC Scout System allows for countless measures to be analyzed and assessing regional mobility. The discussion of tracking data and performance results will include an overview of the effectiveness of ramp metering.</p> <p>Jason Sims, PE MoDOT</p> <p>Managed Lanes</p> <p>What are the current practices, emerging technologies and future trends and how these issues impact project financing and funding.</p> <p>Chris Mwalwanda, P.E. CDMSmith</p>	<p>Streetcar in Missouri</p> <p>Kansas City and St. Louis are each making great strides in planning and design of facilities to enhance transportation in their region. Session will discuss the development of a streetcar program in each region.</p> <p>St. Louis Speakers – Tim Nittler, PE Chris Boyd, PE CH2MHill</p> <p>Kansas City Speakers – Ralph Davis, PE City of Kansas City</p> <p>Jason Waldron, PE HDR</p> <p>Jason Meyers, P.E., LEED® AP BD+C Burns & McDonnell</p>

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Breakout Session #2 – Thursday March 14 : 2:15 PM to 3:15 PM

Salon A	Salon B	Salon E	Salon F&G
<p>Regional Trails</p> <p>The Great Rivers Greenway is making great strides to connect the St. Louis region including an active role in the City + Arch + River 2015 initiative. See the plans for the River Ring and how GRG is working to improve the quality of life by letting people ride, walk, or roll to reach their destination. The District includes the City of St. Louis; St. Louis County, and St. Charles County.</p> <p>Susan K. Trautman CPRP Executive Director Great Rivers Greenway District</p> <p>CrowdFunding??</p> <p>Learn about new trends in the civic funding sector and how crowdfunding can leverage resources and engage users to help turn a community's dream into a reality.</p> <p>Jase Wilson CEO Neighbor.ly</p>	<p>More than Holding our Own – Improving Bridges in St. Louis</p> <p>What is the St. Louis MoDOT Region doing to be at the forefront of bridge maintenance and programming?</p> <p>Mark Croarkin, PE District Bridge Engineer MoDOT</p> <p>LRFD Resistance Factors for Driven Pile in Missouri</p> <p>Pile load tests have been carried out on two types of steel piles (PP and HP) in Missouri soils. The results show the ultimate capacity predicted by dynamics methods very close to the static pile load test.</p> <p>Ronaldo Luna, PhD, PE, FASCE Missouri University of Science & Technology</p>	<p>Everyone is Part of the Safety Blueprint & Today's Designers are No Exception</p> <p>What roadway design initiatives are highlighted in the recently released blueprint?</p> <p>John Miller, PE Traffic Safety Engineer MoDOT</p> <p>Planning and Design to Improve Pedestrian Safety</p> <p>What are effective pedestrian safety measures that should be considered when planning and designing roadway improvements?</p> <p>Craig Allred, PE FHWA</p>	<p>MAP-21 Freight Corridors: Defining and Using Them to Improve Freight Efficiency for a Prosperous Missouri</p> <p>Discuss latest effort to define MAP-21s national freight corridors and how that helps DOTs and industry focus resources to increase efficient flow of freight throughout US.</p> <p>Cheryl Ball Freight Development Administrator MoDOT</p> <p>Fast Track Recovery – Mercy Health Center Development in Joplin</p> <p>This hospital campus will replace the hospital destroyed in the May 2011 tornado. The new site is approximately 120 acres and requires the reconstruction of approximately 1.5 miles of roadway, including an interchange on I-44. The project had a very fast timeline and included the preparation and presentation of an Access Justification Report to FHWA.</p> <p>Kelly Turner, PE Transportation Engineer Olsson Associates</p>

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Breakout Session #3 – Thursday March 14 : 3:45 PM to 4:45 PM

Salon A	Salon B	Salon E	Salon F&G
<p>MoDOT Disparity Study What did the MoDOT sponsored disparity study reveal and how the DBE Mentor/Protege Program be used to assist consultants and sub-consultants. Lester Woods External Civil Rights Director</p> <p>April Hendricks-Brown MoDOT</p> <p>Alternative Project Delivery Come and hear the latest on design/build and other alternative project delivery techniques in Missouri. Angela Fuerst, PE Statewide D/B Coordinator MoDOT</p>	<p>Virtual Design & Construction - More than 3D Modeling 3D modeling is more than a requirement but a great design aid. What are the tools available and how can those tools enhance the design process? Alexa Mitchell, PE CADD Support Engineer MoDOT</p> <p>StreetMapper360 - High Speed, High Quality Data Acquisition Increased accuracy, availability and usability of virtual, smart object modeling for BIM and TIM during the design process are the cornerstone deliverable of StreetMapper 360. Terrametrix utilizes the StreetMapper 360 mobile technology along with a variety of portable tools like the handheld oscillating scanner for more defined areas to customize projects. These systems accurately characterize “as-is” conditions of existing conditions for field measurement and documentation to final deliverable in a multitude of MicroStation and AutoCAD formats. Michael R. Frecks, PLS President/CEO Terrametrix, LLC</p>	<p>Consulting Basics - What does the consulting industry consider when evaluating opportunities? How do the business practices of the consulting industry impact projects? How can agencies effectively communicate project requirements and issues to draw in the best consulting firm for a project? Larry W. Frevert, PE, PWLF TREKK Design Group</p> <p>Mike Lally, PE Olsson Associates</p>	<p>Hot Asphalt Undersealing What are the benefits and potential pitfalls of using hot asphalt undersealing when evaluating pavement repair needs? Eric Krapf, PE Project Manager MoDOT</p> <p>Performance Based Maintenance Contracting MoDOT is piloting a new method of contracting for maintenance activities. What is the difference from current methods? What are the advantages to the contractor, customer and DOT? When will this method be used? Beth Wright, PE State Maintenance Engineer MoDOT</p>

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Breakout Session #4 – Friday March 15 : 8:00 AM to 9:30 AM

Salon A	Salon B	Salon E	Salon F&G
<p>The VDOT Dashboard - Showing the Public our results</p> <p>Getting Ready for MAP-21 and Performance Management Changes</p> <p>With the clock ticking on requirements for a performance-based federal-aid program (MAP-21), the success of your agency may hinge on its ability to manage resources and motivate employees to deliver targeted results. Join leading transportation experts from Missouri and Virginia to learn how performance management is changing under MAP-21.</p> <p>Sidonia Detmer, PMP Virginia DOT</p> <p>Mara Campbell MoDOT</p>	<p>Safe and Sound Technical Issues and the Wow! Factor</p> <p>Design Build in action. How KTU and MoDOT responded to challenges that arose after the start of construction using a bold and innovative approach.</p> <p>Stacy McMillan, PE Jeff Madsen, PE Safe and Sound Project Engineering Team MoDOT</p> <p>David Vanecek KTU Constructors</p> <p>eSPAN140 and Short Span Steel Bridges</p> <p>Two Missouri bridges will demonstrate short span steel bridges are competitive and can save owners money. A web-based design tool will show that short span steel bridge design is convenient.</p> <p>Michael G. Barker, PE Professor Civil & Architectural Engineering University of Wyoming</p>	<p>Considerations for AC - What's New in Asphalt Pavement Design and Construction</p> <p>What are state of the art practices that should be considered when evaluating AC pavement design and construction techniques?</p> <p>Dale A. Williams, PE Executive Director Missouri Asphalt Pavement Association</p> <p>Concrete Pavement and Concrete Overlay Design for City Streets - Putting Theory into Practice</p> <p>What are state of the art practices that should be considered when evaluating PCC pavement design and construction techniques?</p> <p>Randell C. Riley, PE Executive Director Illinois Chapter of the American Concrete Paving Association</p>	<p>Managing Mobility and Addressing Congestion in the St. Louis Region</p> <p>An update on the techniques used to manage mobility in the St. Louis region and identifying recurring issues that require a project improvement solution.</p> <p>Jeanne Olubogun, PE, PTOE Teresa Krenning, PE, PTOE MoDOT</p> <p>Moveable Concrete Barrier</p> <p>How the use of Moveable Concrete Barrier can be an effective tool to increase safety and reduce congestion while possibly helping to reduce construction project costs and project days.</p> <p>Laura Huizinga Regional Manager Barrier Systems Inc.</p>